



Grandstream Networks, Inc.

ActionURL Module User Guide

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INTRODUCTION

ActionURL module is used to set the URL for various kinds of phone events on phone web GUI, and when the corresponding event occurs on the phone, phone will send the configured URL to SIP server. The dynamic variables in the URL will be replaced by the actual values of the phone before sending to SIP server, in order to achieve the purpose of events notification. Users need to follow the specified variable format to create URL for phones, in order to replace the dynamic variables successfully.

This user guide aims to help users to use ActionURL module on GXV3240/3275 build 1.0.3.24 or higher version.

OVERVIEW OF FUNCTIONS

To use ActionURL module, users need to know the supported events in this module, and also added the dynamic variables of the supported events on phone web GUI. The dynamic variables of the supported event will be replaced by actual values of the phone, in order to notify the event to SIP server.

SUPPORTED EVENTS

- Incoming Call
- Outgoing Call
- Establish Call
- Terminate Call
- Off Hook
- On Hook
- Missed Call
- DND On
- DND Off
- Call Forwarding On
- Call Forwarding Off
- Hold Call
- Resume Call
- Syslog On
- Syslog Off
- Booting Completed
- Blind Transferring
- Attended Transferring
- Registration
- Sign Off

SUPPORTED DYNAMIC VARIABLES

\$phone_ip	The IP address of the phone
\$mac	The MAC address of the phone
\$product	The product name of the phone

\$program_version	The software version of the phone
\$hardware_version	The hardware version of the phone
\$language	The display language of the phone
\$local	The called number on the phone
\$display_local	The display name of the called number on the phone
\$remote	The call number on the remote phone
\$display_remote	The display name of the call number on the remote phone
\$call-id	The message label in the same session group. This is the only thing to distinguish if the session messages are in the same group, and the requests and the responses should contain the same call id.
\$active_user	The account number which is during a call on the phone
\$active_host	The SIP server of the account number which is during a call on the phone
\$duration	Talk time (Unit: seconds)
\$calldirection	Direction of the call, which represents the phone is calling party or called party

ACTIONURL FORMAT

Users need to go to web GUI -> Maintenance -> Event Notify to add the ActionURL with the dynamic variables. Here are the standards of ActionURL:

1. The IP address of the SIP server needs to be added at the beginning of the ActionURL, and separate the dynamic variables with a “/”.
2. The dynamic variables need to have a “\$” at the beginning, for example:
 - local=\$local
 - call-id=\$call-id
3. If users need to add multiple dynamic variables in the same event, users could use “&” to connect with different dynamic variables. You can see the example of ActionURL in the figure below:

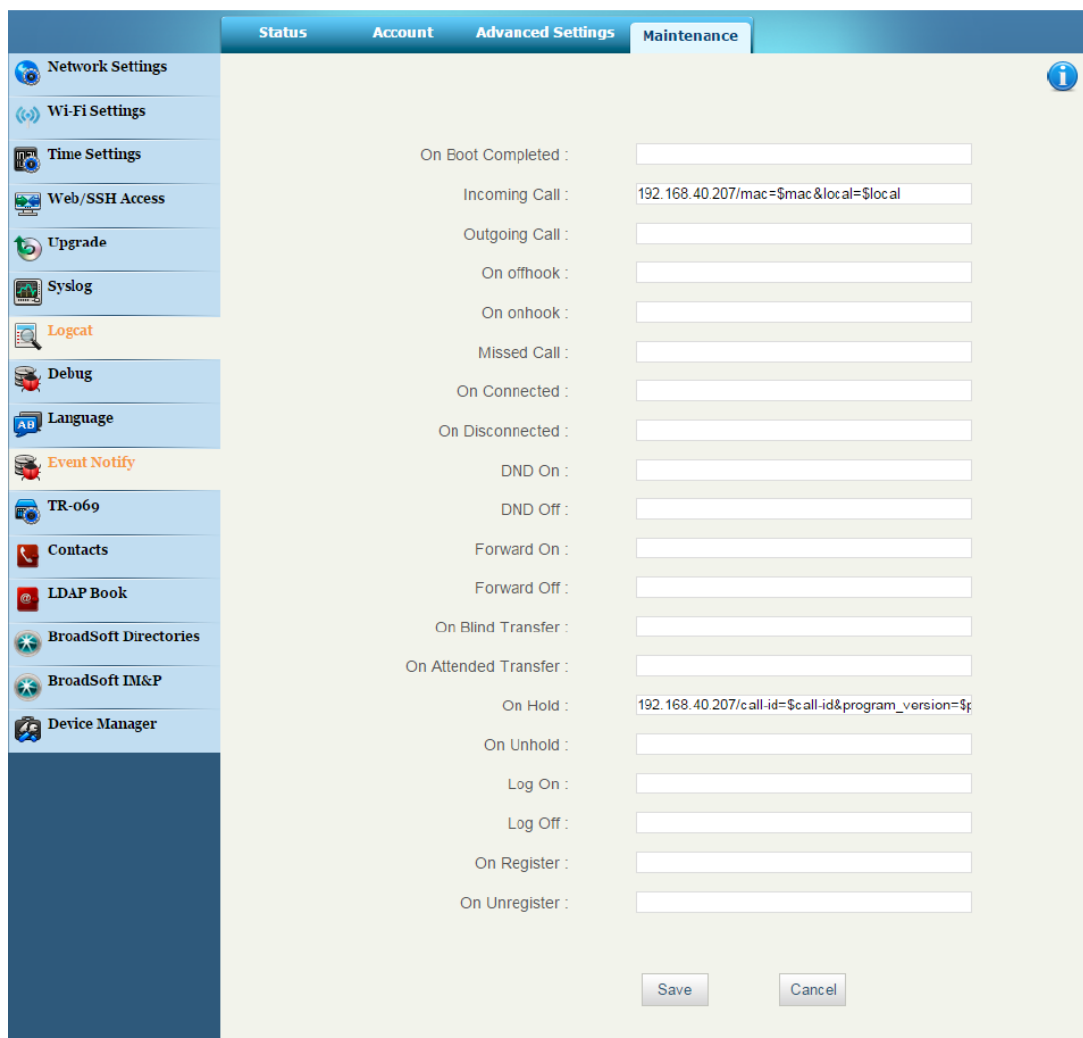


Figure 1: ActionURL Example on Phone Web UI

EVENT NOTIFICATION

When user finishes setting ActionURL on phone web GUI, and the specified phone event occurs on the phone, phone will send the ActionURL to the specified SIP server. The dynamic variables in the ActionURL will be replaced by the actual values. If users observe the traffic, phone will send HTTP message with the ActionURL with the actual values to SIP server, as the figure shows below, the ActionURL is to notify SIP server with call ID:

No.	Time	Source	Destination	Protocol	Length	Info
1	0.00000000	192.168.40.250	192.168.40.207	HTTP	153	GET /remote=661&phone_ip=192.168.40.250 HTTP/1.1
2	12.3305540	192.168.40.250	192.168.40.207	HTTP	149	GET /mac=0:b:82:61:65:19&local=1003 HTTP/1.1
3	31.8384430	192.168.40.250	192.168.40.207	HTTP	149	GET /mac=0:b:82:61:65:19&local=1003 HTTP/1.1
4	39.3278970	192.168.40.250	192.168.40.207	HTTP	210	GET /call-id=471876-6888ab294cda6a7930881def2e09b0db@192.168.40.77:5060&program_version=1.0.3.24 HTTP/1.1


```

Frame 1: 153 bytes on wire (1224 bits), 153 bytes captured (1224 bits) on interface 0
Ethernet II, Src: Grandstr_61:65:19 (00:0b:82:61:65:19), Dst: Grandstr_68:d7:ad (00:0b:82:68:d7:ad)
Internet Protocol Version 4, Src: 192.168.40.250 (192.168.40.250), Dst: 192.168.40.207 (192.168.40.207)
Transmission Control Protocol, Src Port: 57605 (57605), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 87
Hypertext Transfer Protocol
  GET /remote=661&phone_ip=192.168.40.250 HTTP/1.1\r\n
    [Expert Info (Chat/Sequence): GET /remote=661&phone_ip=192.168.40.250 HTTP/1.1\r\n]
      Request Method: GET
      Request URI: /remote=661&phone_ip=192.168.40.250
      Request Version: HTTP/1.1
      Host: 192.168.40.207\r\n
      Accept: */*\r\n
      \r\n
      [Full] request URI: http://192.168.40.207/remote=661&phone_ip=192.168.40.250]
      [HTTP request 1/1]
  
```

Figure 2: ActionURL Example Sending to SIP server

USING ACTIONURL MODULE

Here is an example shows the full steps how to use ActionURL on a GXV3240:

1. Go to GXV3240 web GUI-> Maintenance -> Event Notify, add the ActionURL to specified phone events following the standards. The figure shows an example of multiple ActionURL in different phone events:

ActionURL:

Incoming Call:	192.168.40.207/mac=\$mac&local=\$local
Outgoing Call:	192.168.40.207/remote=\$remote&phone_ip=\$phone_ip
On Unhold:	192.168.40.207/call-id=\$call-id&program_version=\$program_version

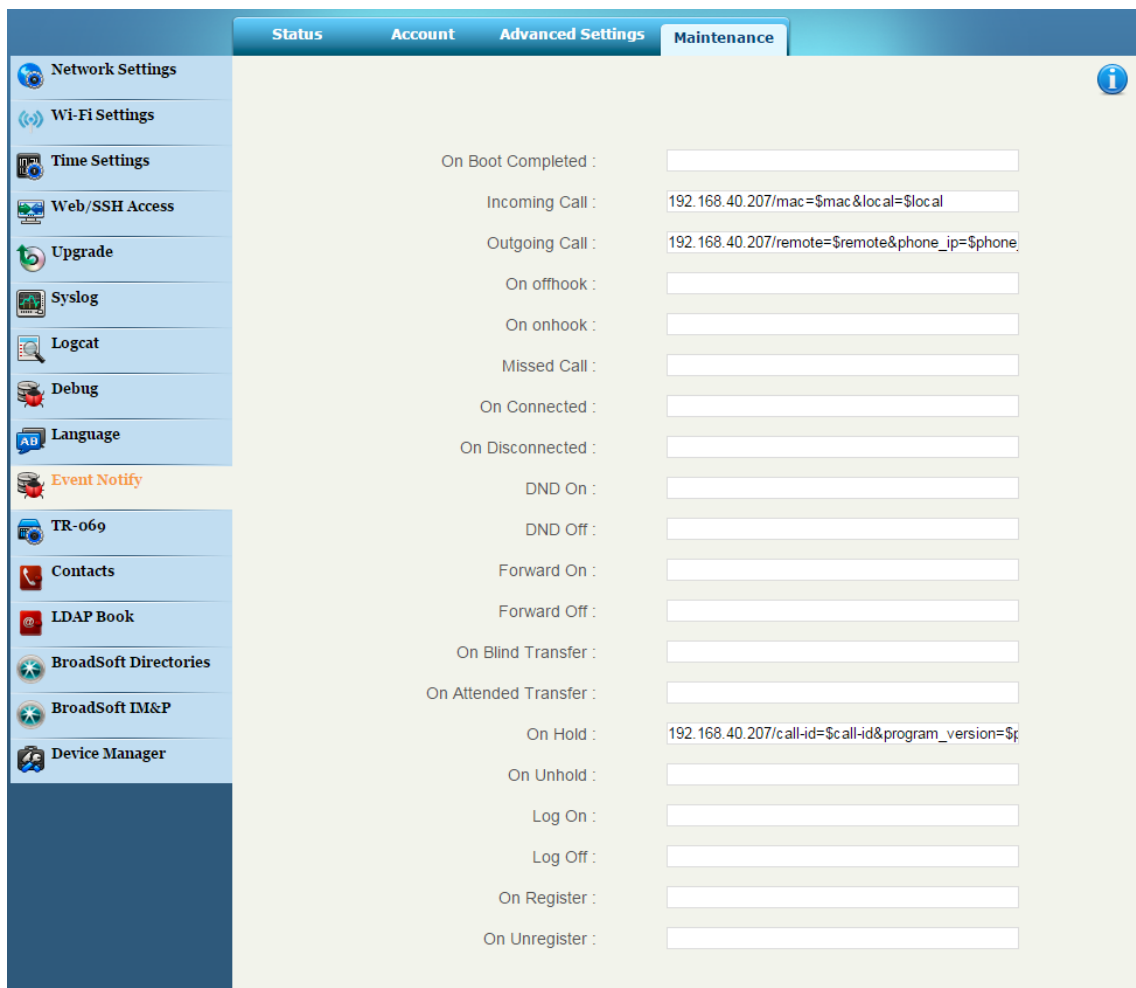


Figure 3: Multiple ActionURL

2. Make an incoming call, an outgoing call, and unhold the call for the phone, capture the traffic, phone

will send the ActionURL with actual values to SIP server, in order to achieve to notify phone events, as the figure shows below. From top to bottom, the phone events included in the HTTP messages are: Outgoing Call, Incoming Call and the On Hold.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.00000000	192.168.40.250	192.168.40.207	HTTP	153	GET /remote=661&phone_ip=192.168.40.250 HTTP/1.1
2	12.3305540	192.168.40.250	192.168.40.207	HTTP	149	GET /mac=0:b:82:61:65:19&[oca]=1003 HTTP/1.1
3	39.3278970	192.168.40.250	192.168.40.207	HTTP	210	GET /call?id=471876-6888ab294cda6a7930881def2e09b0db@192.168.40.77:5060&program_version=1.0.3.24 HTTP/1.1

Figure 4: Multiple ActionURL Sending to SIP Server